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cumstances interfering with inland transport made inaccessible locally.[34]

Other food commodities have a relatively higher unit-value by weight, and are therefore able to move to the city over greater distances, in some cases independently of the water network. Fruit, largely citrus, comes in principally from Chekiang which is just south of the delta but in many areas cut off from water routes by high relief. For this comparatively long-distance overland shipping, the fruit is packed in pine boxes and wrapped in sacking as a protection against frost. In the rugged areas of Chekiang it is carried by porter, and is transferred to junk or sampan when it reaches the edge of the delta.[35] Other fruit sources for Shanghai are even more distant, but most of them can ship to the city over at least part of the route by sea. Grapes and melons come to Shanghai from Hopeh and Shansi, oranges and lichees from Kwangtung and Fukien, and apples from Liaoning (southern Manchuria).[36]

Fresh meat is sold in the city only in limited quantities and is supplied (except for the tiny foreign consumption before 1941, which drew on refrigerated shipping from New Zealand and Australia) almost entirely from the immediate market-garden area. Fish and eggs are far more important elements in the average Shanghai diet than fresh meat, but some cured or salted meat is available from greater distances. Shanghai's main supply of cured hams comes from Chekiang, via Hangchow, and from Kiangsu and Anhwei by Yangtze steamer. Substantial amounts also come from as far as Szechuan and Yünnan, where the making of famous high-quality hams has long been a specialty. The tremendous cost of transporting hams from Yünnan does not apparently make their price prohibitive, although it does limit the market for them.[37] High unit-value is of course the basic factor.

Eggs have become industrial raw materials, in addition to their part in the city's diet, with the development of freezing and drying plants to prepare eggs for export. Fresh eggs are also exported from Shanghai in cold storage to places as distant as the United Kingdom. The Shanghai supply for this varied market is drawn from surprising distances. Within Kiangsu, eggs come to the city from all but two of the *hsien*.[38] These two are in the northernmost part of

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The reason for the absence of a steel industry in China, or in Shanghai, was the inability of the industry to meet the price of foreign imports. China's total iron ore resources are not inconsiderable, but in the Yangtze basin, where most of the production attempts have been centered, the ore deposits are small and scattered so that their exploitation imposes high costs. Small deposits of coal are also found in scattered localities along the lower Yangtze, but the combined costs of mining and of transport to production centers were too high to permit economic iron or steel making.[24] In the case of Shanghai, not only did these factors operate despite its water connections with the ore and coal deposits along the Yangtze, but as a seaport it could not produce iron or steel from domestic or foreign ore at anything like the price of seaborne imports of foreign iron and steel. Fortunately its maritime connections enabled it to draw on foreign sources for iron and steel and to produce finished metal goods at a cost which still allowed them to compete in the China market with foreign imports of finished metal goods.

Among the large metal-using industries, the vehicle plants (aside from the shipyards of the Kiangnan Arsenal before 1932) imported almost all of their finished steel plates, wire, rods, tubing, and other semi-finished steel products, and most of their cast iron, directly, or indirectly as recastings from iron and steel scrap. The same was true of the plants producing machinery, with their large use of more highly-finished steel products and special steels.[25] The nine large-scale modern shipyards produced primarily river and small coastal craft, the largest ship built up to 1932 being of 11,000 net tons. The steel, production machinery, and most of the engines installed in these ships were imported, and yet it was still apparently possible for the yards to compete in the China market with European, Japanese, or American yards. In 1930 the nine yards turned out a total of 71 ships with a gross tonnage of 17,839, and an average tonnage of 240.[26] There were also about 30 smaller shipyards building Chinese-style wooden craft, from canal sampans to large coastal junks.[27]

Among the other metal-using industries, the food canning and can-producing plants in Shanghai imported all of their tin plate, primarily from the United States.[28] China has significant deposits